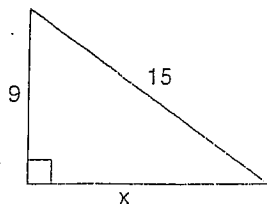


Find the Missing Measure

The Pythagorean Theorem states that the square of the hypotenuse is equal to the sum of the squares of the legs. Use the formula $a^2 + b^2 = c^2$, where a and b are the legs and c is the hypotenuse.



$$x^2 + 9^2 = 15^2$$

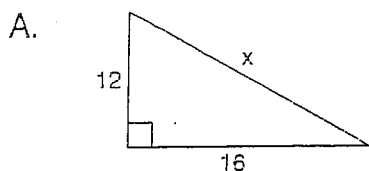
$$x^2 + 81 = 225$$

$$x^2 = 225 - 81$$

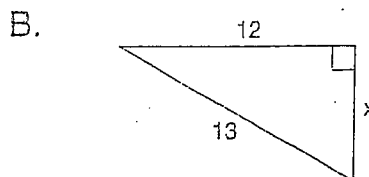
$$x^2 = 144$$

$$x = \sqrt{144} \text{ so } x = 12$$

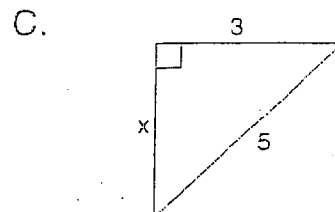
Use the Pythagorean Theorem to find X . You may use a calculator if you wish.



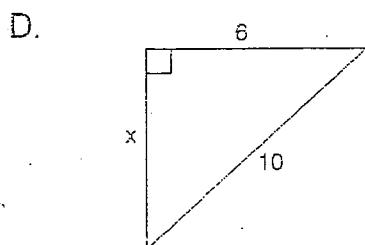
$$X = \underline{\hspace{2cm}}$$



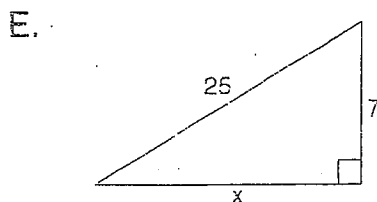
$$X = \underline{\hspace{2cm}}$$



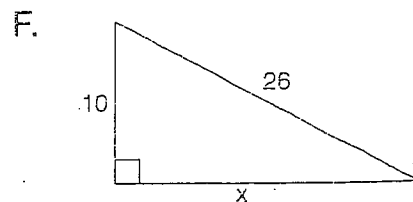
$$X = \underline{\hspace{2cm}}$$



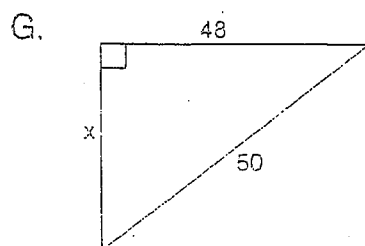
$$X = \underline{\hspace{2cm}}$$



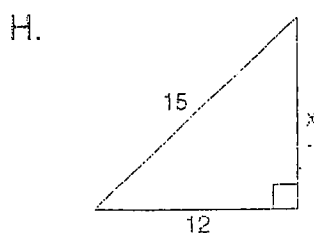
$$X = \underline{\hspace{2cm}}$$



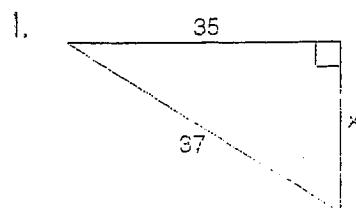
$$X = \underline{\hspace{2cm}}$$



$$X = \underline{\hspace{2cm}}$$



$$X = \underline{\hspace{2cm}}$$

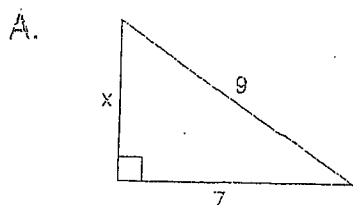


$$X = \underline{\hspace{2cm}}$$

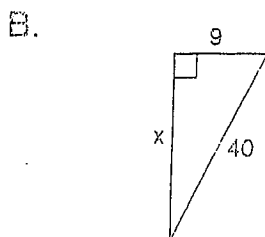
Name _____ Right triangles

Use the Pythagorean Theorem

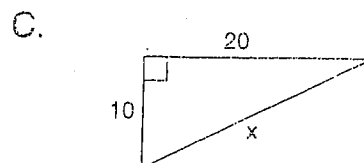
Find the value of X for each diagram. Use the formula $a^2 + b^2 = c^2$. Show each step. Use a calculator and round your answers to the nearest hundredth.



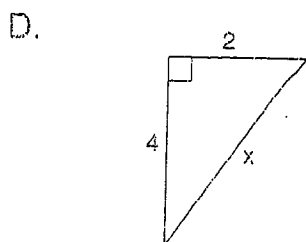
$X =$ _____



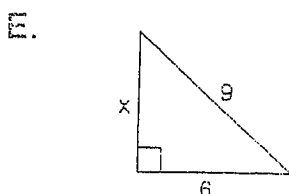
$X =$ _____



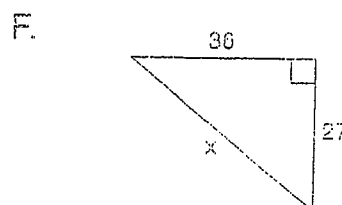
$X =$ _____



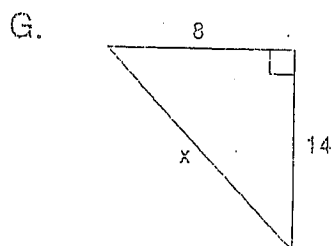
$X =$ _____



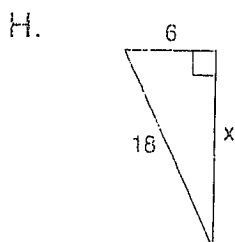
$X =$ _____



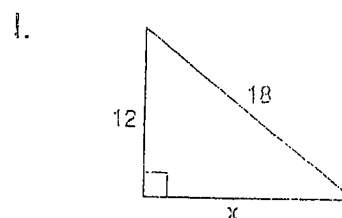
$X =$ _____



$X =$ _____



$X =$ _____



$X =$ _____